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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/456,692	12/09/1999	STEVEN G. FRY	M-7916US	6777
33031	7590	09/10/2004	EXAMINER	
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PAPER NUMBER				

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/456,692	FRY ET AL. <i>S</i>
	Examiner Carl Colin	Art Unit 2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) Responsive to communication(s) filed on 08 December 2003.
- 2a) This action is FINAL.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) Claim(s) 107-164 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 107-164 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on 08 December 2003 is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Response to Arguments*

1. In response to communications filed on 8/9/2004 for Request to Continue Examination, Applicant cancels claims 1-106 and adds claims 107-164. The following claims 107-164 are presented for examination.
  
2. Applicant's remarks, page 13, filed on 8/9/2004, with respect to the addition of new claims 107-164 have been fully considered, however the specification fails to disclose every claim limitation as claimed (see for example 112 rejection below). A new ground of rejection is made in view of Bhagwat. Bagwat discloses comparing security token to determine whether connection should be coupled and further discloses creating a socket connection and relaying connections.

### *Drawings*

3. Fig. 1 is objected to as failing to comply with 37 CFR 1.84(p)(5) because it does not include the reference signs **131, 132, 146, and 147**, mentioned in the description on p.2. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 107, 131, 148 and 125, 145, and 162 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The Applicant fails to recite creating a socket associated with the first connection and the first security token if none of the security associated tokens match. The specification, on the other hand, describes that termination is disconnected or remains open.

***Claim Objections***

5. **Claims 148, 150-162, 164** and the intervening claims are objected to because of the following informalities: the term “adapted to” is not a positive limitation and should be corrected. Appropriate correction is required. See MPEP § 2106.

***Claim Rejections - 35 USC § 101***

6. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

**Claims 148-164** are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The computer program product recited in these claims is not embodied in a computer hardware or not properly claimed. See MPEP § 2106.

***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7.1 **Claims 107-127 and 131-164** are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 5,941,988 to **Bhagwat et al.**

7.2 **As per claims 107-108, 131-132, and 148-149, Bhagwat et al.** discloses a method comprising: providing a plurality of sockets, wherein each socket has an associated connection and an associated security token; receiving a first connection and a first security token, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40); comparing the first security token with the associated security tokens, for example (column 7, lines 10-55 and column 8, lines 40 et seq. and column 4, lines 22-37 and column 12, line 33-55); in response to said comparing, if none of the associated security tokens match the first security token, creating a socket associated with the first connection and the first security token, for example (see column 7, lines 10-55 and column 8, lines 40 et seq. and column 4, lines 22-37).

**As per claims 109, 111, 133, 135, 150, and 152, Bhagwat et al.** discloses the limitation of further comprising: in response to said comparing, if the first security token and a security token associated with one of the plurality of sockets match, coupling the first connection to the connection associated with the socket, for example (see column 5, lines 5-20).

**As per claims 110, 134, and 151, Bhagwat et al.** discloses the limitation of further comprising: in response to said comparing, if none of the associated security tokens match the first security token, upon a determination that the first connection is not to be associated with a socket, disconnecting the first connection, for example (see column 12, lines 25-37).

**As per claims 112, 136, and 153, Bhagwat et al.** discloses the limitation of wherein the coupling the first connection to the connection associated with the socket comprises: creating a single connection comprising the first connection and the connection associated with the socket, for example (see column 5, lines 5-20 and column 7, lines 26-56).

**As per claims 113-114, 137-138, and 154-155, Bhagwat et al.** discloses the limitation of further comprising: decoupling the first connection and the connection associated with the socket, wherein the decoupling occurs upon one of failure and disconnect of one of the first connection and the connection associated with the socket, for example (see column 12, lines 25-37 and column 9, line 55 et seq.).

**As per claims 115, 139, and 156, Bhagwat et al.** discloses the limitation of wherein the first connection is transmitted through a first firewall program, for example (see column 1, lines 45-67 and column 5, lines 5-20).

**As per claim 116, Bhagwat et al.** discloses a proxy that can create a connection that meets the recitation of the limitation of wherein the first connection is created by a protocol daemon, for example (see column 7, lines 26-45).

**As per claim 117, Bhagwat et al.** discloses wherein a second connection connects the protocol daemon to a first program, and the protocol daemon couples the first connection to the second connection, for example (see column 7, lines 26-56).

**As per claim 118, Bhagwat et al.** discloses wherein the protocol daemon relays a data stream between the first connection and the second connection, for example (see column 7, lines 26-56).

**As per claim 119, Bhagwat et al.** discloses wherein the first program provides the first security token, for example (see column 3, line 63 through column 4, line 8).

**As per claims 120, 140, and 157, Bhagwat et al.** discloses a method comprising: creating a first connection to a first program; receiving a first security token from the first program; creating a second connection to a relay program; providing the first security token to the relay program, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40 and column 7, lines 26-45); and upon successful creation of the second connection, coupling the first connection to the second connection, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40; and column 7, lines 26-45).

**As per claims 121, 141, and 158, Bhagwat et al.** discloses the limitation of wherein the second connection is transmitted through a firewall program, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40; and column 7, lines 26-45).

**As per claims 122, 142, and 159, Bhagwat et al.** discloses the limitation of further comprising: relaying a data stream between the first connection and the second connection, for

example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40 and column 7, lines 26-45).

**As per claims 123, 143, and 160, Bhagwat et al.** discloses the limitation of wherein the first security token is one of a password, a network address, and a verification string, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40; and column 7, lines 26-45).

**As per claims 124, 144, and 161, Bhagwat et al.** discloses the limitation of further comprising: terminating the first connection and the second connection, for example (see column 12, lines 25-37 and column 9, lines 55 et seq.).

**As per claims 125, 145, and 162, Bhagwat et al.** discloses the limitation of wherein the relay program compares the first security token with one or more security tokens associated with one or more corresponding connections, for example (column 7, lines 10-55 and column 8, lines 40 et seq. and column 4, lines 22-37 and column 12, line 33-55); in response to said comparing, if the first security token and a security token associated with a corresponding connection match, coupling the second connection to the connection associated with the matching security token, for example (see column 5, lines 5-20); and in response to said comparing, if none of the associated security tokens match the first security token, creating a socket associated with the second connection and the first security token, for example (column 7, lines 10-55 and column 8,

lines 40 et seq. and column 4, lines 22-37 and column 12, line 33-55). See also column 3, line 63 through column 4, line 7).

**As per claims 126, 146, and 163, Bhagwat et al.** discloses the limitation of wherein the connection associated with the matching security token is initiated by a second program, for example (see column 5, lines 5-20).

**As per claims 127, 147, and 164, Bhagwat et al.** discloses the limitation of wherein the relay program relays data between the second connection and the connection associated with the matching security token, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40 and column 7, lines 26-45).

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8.1     **Claims 128-130** are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,941,988 to **Bhagwat et al.** in view of US Patent 6,104,716 to **Crichton et al.**.

8.2     Claim 128 contains the same limitations as claim 120 except for using a protocol daemon, which is disclosed by **Bhagwat et al.**. As per claims 128-130, **Bhagwat et al.** discloses the limitation of wherein wherein a protocol daemon program does creating a first connection to a first program, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40 and column 7, lines 26-45); receiving a first security token from the first program; creating a second connection to a relay program; providing the first security token to the relay program, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40 and column 7, lines 26-45); and upon successful creation of the second connection, coupling the first connection to the second connection, for example (see column 3, line 63 through column 4, line 8; column 5, lines 5-40; and column 7, lines 26-45). **Bhagwat et al.** does not explicitly disclose a protocol daemon providing the first security token to the relay program as **Bhagwat et al.** describes the invention with a single firewall and proxy. However, adding more firewalls and proxies does not depart from the spirit and scope of the invention, for example (see column 10, lines 45-63). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of **Bhagwat et al.** to add another proxy as a relay program to perform the same function as taught by **Bhagwat et al.** in order to expand the system to multiple parties and connections. This design choice requires routine skill in the art. **Crichton et al.** in an analogous art teaches multiple proxies wherein one proxy can provide security token to another neighboring proxy as explained for example in

column 8 allowing a single tunnel to be constructed across multiple firewalls, for example (see columns 8-9); and further discloses wherein the protocol daemon program and the firewall program are resident on a single computer; wherein the protocol daemon program and the first program are resident on a single computer providing flexibility depending on resources available, for example (see column 9, lines 50-67). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of **Bhagwat et al.** to have a protocol daemon providing the first security token to the relay program allowing a single tunnel to be constructed across multiple firewalls, wherein the protocol daemon program and the firewall program are resident on a single computer; wherein the protocol daemon program and the first program are resident on a single computer providing flexibility depending on resources available as taught by **Crichton et al.**. This modification would have been obvious because one skilled in the art would have been motivated by the suggestions provided by **Crichton et al.** so as to allow a single tunnel to be constructed across multiple firewalls and provide flexibility depending on resources available, for example (see column 8, lines 52-67 and column 9, lines 50-67).

### *Conclusion*

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. US Patent 6,308,238 Smith et al.

Art Unit: 2136

This patent pertains to comparing security token with associated security tokens to determine whether or not connection should be established. Many of the claimed features are disclosed in this reference.

9.1 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl Colin whose telephone number is 703-305-0355. The examiner can normally be reached on Monday through Thursday and every other Friday, 8:00-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

*CC*

Carl Colin

Patent Examiner

September 2, 2004

*Ayaz Sheikh*  
AYAZ SHEIKH  
SUPERVISORY PATENT EXAMINER  
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